

L 20230-65
ACCESSION NR: AP4049884

$$\ddot{\psi} + \frac{1}{\gamma} (\dot{\psi} - \phi) - \ddot{\phi} = 0;$$

$\ddot{\psi} - \frac{1}{\gamma} (\dot{\psi} - \phi) = 0$. (where $y_1 = y/R$, $\gamma = E/kG$, ψ = slope when $Q = 0$, dots represent differentiation with respect to $t_1 = C_1 t/R$, and dashes represent it with respect to $x_1 = x/R$, $C_1 = \sqrt{E/\rho}$) was obtained for $t_1 = x_1$ (see Fig. 1 on the Enclosure) and was compared with experimental results. It was found that the experimental curve closely resembled the wave equation solution. Orig. art. has: 2 figures and 2 formulas.

ASSOCIATION: none

SUBMITTED: OO

ENCL: 01

SUB CODE: ME,PR

NO REF SOV: 003

OTHER: 001

Card 2/37

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

L 26052-66 EWT(m)/EWP(j) IJP(c) JW/RM

ACC NR: AP5025123

SOURCE CODE: UR/0079/65/035/010/1720/1723 8/

AUTHOR: Petrov, A. A.; Maretina, I. A.; Mingaleva, K. S. 79
B

ORG: Leningrad Technological Institute imeni Lensoveta (Leningradskiy tekhnologicheskiy institut)

TITLE: Silicon-containing acetylene enamines 1

SOURCE: Zhurnal obshchey khimii, v. 35, no. 10, 1965, 1720-1723

TOPIC TAGS: silicon compound, silane, electron density, secondary amine, magnetic resonance, dipole moment, hydrogen bonding, organic synthetic process, acetylene

ABSTRACT: A study of the physical properties of 1, 3 amines of the R₂N-CH=CH-C≡CH type made it possible to hypothesize the strong displacement of the electron cloud in their molecules to the side of the triple bond. These compounds have a considerably higher dipole moment than the saturated amines; the nitrogen atom does not seem inclined to hydrogen bond formation; and the magnetic resonance signal of the acetylene proton indicates strong shielding. The purpose of the work was to determine how the electron density distribution is changed in a system during introduction into the chain of a silicon atom capable of d, π-reaction

Card 1/2

UDC: 547.333.3:547.345 2

L 26052-66

ACC NR: AP5025123

with π -electrons of multiple bonds. By the action of trialkylchlorsilanes on the Iotsich complexes obtained from the single amines of $\text{HC}\equiv\text{C}-\text{CH}-\text{CH}-\text{NR}_2^2$, two silicon containing acetylene enamines of $\text{R}_3\text{Si}-\text{C}\equiv\text{C}-\text{CH}=\text{CH}-\text{NR}_2^2$ type were synthesized, where $\text{R}=\text{CH}_3$ and C_2H_5 . The dipole moments of the silicon-containing acetylene amines are greater than those of the original 1, 3-single amines by 0.4-0.8D. This fact is interpreted as the result of a d-orbit participation of the silicon atom in the conjugation. Orig. art. has: 2 fig.

SUB CODE: 07,20 / SUBM DATE: 09Oct64 / ORIG REF: 006

Card 2/2 *pla*

752-3 MCGREGOR

2013-05-14 10:00:00 1/300, 100, 100, 100

AUTHOR: *Sorokin, N. S.* (Sorokin, Nikolai Stepanovich)
ORG: Institute of Organochlorine Compounds, Academy of Sciences, USSR
(Institut organochluskov RAN)

TITLE: Change in certain mechanical properties of polyethylene as a result of plastic deformation under high pressure

1924. At 800 ft. elev. over sand, 100 yds. from water.

Card 112

41314-
ACC NR: 46024021

deformation of the latter and in the case of the former to cause the appearance of paired electrons: in monocrystals, the concentration increases from $10^{14}-10^{15} \text{ e}^{-}$ at ~ 1 kbar to $\sim 10^{17} \text{ e}^{-}$ at 50 kbar; in polycrystals, from $10^{14}-10^{15} \text{ e}^{-}$ at ~ 1 kbar to $\sim 10^{17} \text{ e}^{-}$ at 50 kbar. Grav. art. has: 1 fl. yrs.

SUB CODE: 07,11/ SUBM DATE: 11.09.77 SUBJ: ... FILE REF: 002

Card 2/2 has

ACC NR: AP6025622

SOURCE CNT: 12/24/86/00/00/00/00/00/00

AUTHORS: Mashlyakovskiy, L. N.; Ivanin, I. A.; Oshurkov, I. S.; Reznik, A. A.

CRG: none

TITLE: Preparative method for phosphorus-containing polyesters. Class 37, no. 183385 [announced by Leningrad Technological Institute imeni Lensoveta (Leningradskiy tekhnologicheskiy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1964, 77

TOPIC TAGS: phosphorus, polyester, polycondensation, phosphoric acid, glycol

ABSTRACT: This Author Certificate presents a method for preparing phosphorus-containing polyesters by polycondensation of alkylphosphonic chlorides with aliphatic or aromatic diols. To broaden the assortment of phosphorus-containing polymers having high fire resistance and good adhesion to metals, chlorides with 1,3-diene groups at the phosphorus atom, e.g., α -methyl-, β -methyl-phosphonic chloride, are used as the alkylphosphonic chlorides.

SUB CODE: 07/ SUBM DATE: 21Apr64 ATI PPNL: 52579

SIC: 673.2
673.35

Card 1/1111P

L 1043-66 EWT(m)/EWT(t) ETI ICF(c) ID/JW 3

ACC NR: AP6013734

SOURCE CODE: UR/0089/66/020/004/0348/0351

AUTHOR: Zakorina, N. A.; Lazeyeva, G. S.; Petrov, A. A.

ORG: none

TITLE: Spectroscopic determination of the isotopic composition of boron trifluoride

SOURCE: Atomnaya energiya, v. 20, no. 4, 1966, 348-351

TOPIC TAGS: isotope, boron, boron compound, spectrographic analysis

ABSTRACT: The authors describe a method for the analysis of the isotopic composition of boron from the edges of the electron-vibrational bands of the BO₂ molecule, excited in a high frequency electrodeless discharge of gaseous BF₃. The excitation occurs in a quartz capillary tube, 1.5–2.5 mm in diameter, in the flow of BF₃ mixed with oxygen and an inert gas (He or Ar). The oscillators supplied either f ≈ 1.5 Mc and W ≈ 0.05 kW (model VG-3), or f ≈ 50 Mc and W ≈ 0.05 kW (UVG-1). The paper presents the experimental methodology, shows the registration diagram of the BO₂ bands, offers the calibration curve, and describes the aging of the discharge tube. An analysis of the results shows that the method is as accurate as the activation or mass spectrometric methods, while it utilizes much simpler, less expensive,

Card 1/2

UDC: 621.039.3

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

L 41043-66

ACC NR: AP6013734

and faster equipment. Orig. art. has: 4 figures.

SUB CODE: 07 / SUBM DATE: 29Jul63 / ORIG REF: 012 / OTH REF: 005

Card 2/2 *fdk*

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

L-16668-55 ENT(m)/EFF(c)/EMP(j)/T Po-4/Pr-4 RM

ACCESSION NR: AP4044195

S/0079/64/034/008/2625/2630

AUTHOR: Shakhovskoy, B. G.; Stadnichuk, M. D.; Petrov, A. A.

TITLE: Investigations in the area of unsaturated organosilicon compounds. XIV.
Synthesis and hydrogenation of certain conjugated diyne silicon hydrocarbons

SOURCE: Zhurnal obshchey khimii, v. 34, no. 8, 1964, 2625-2630

TOPIC TAGS: unsaturated organosilicon compound, conjugated diyne silicon hydrocarbon, diacetylenic silicon hydrocarbon, alkadiyne magnesium bromide, trialkylsilane, hydrogenation, catalytic hydrogenation

ABSTRACT: Diacetylenic silicon hydrocarbons with the silicon atom at the triple bond were synthesized, then hydrogenated in the presence of Pd/CaCO₃. 1-Tri-methylsilylpentadiene-1,3, 1-trimethylsilylhexadiene-1,3, 1-trimethylsilylheptadiene-1,3 were obtained by reacting the suitable alkadiene magnesium bromide with trimethylchlorostilane in a nitrogen atmosphere. Upon reduction of these compounds, the first mole of hydrogen added rapidly to the triple bond not linked

Card 1/2

L 16668-65

ACCESSION NR: AP4044195

to the Si (< to the Si atom) and subsequent hydrogenation to the tetraalkylsilane proceeded much more slowly. IR spectra for the diacetylenic compounds and the reduction products were obtained and discussed in detail. Orig. art. has: 3 figures and 1 table

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta
(Leningrad Technological Institute)

SUBMITTED: 13Jun63

ENCL: 00

SUB CODE: OC

NO REF SOV: 008 OTHER: 004

Card 2/2

L 17962-65 EWT(m)/EPF(c)/EWP(j) PC-4/Pc-4 ASD(a)-5/SSD/AFWL/ESD(t)/RPL
WW/JFW/RM

ACCESSION NR: AP5002621

S/0079/64/034/008/2630/2632

AUTHOR: Ionin, B. I.; Mingaleva, K. S.; Petrov, A. A.

TITLE: Dipole moment of phosphinic acid esters with unsaturated radicals

SOURCE: Zhurnal obshchey khimi, v. 34, no. 8, 1964, 2630-2632

TOPIC TAGS: ester, phosphinic acid, chemical bonding, organic phosphorus compound, saturated hydrocarbon, unsaturated hydrocarbon, dipole moment

Abstract: The dipole moment of eight diethyl esters of phosphinic acids with saturated, ethylene, and acetylene radicals: diethyl esters of methyl-acetylenyl- and phenylacetylenylphosphinic acids and their ethylene and unsaturated analogs, as well as ethyldiacetylenylphosphinic ester, were measured. An assumption of weak conjugation of the diethylphosphone group with multiple bonds was confirmed. It was shown that the diethylphosphone group is somewhat more conjugated with a triple bonds than with a double bond. The dipole moment was found to be directed in all cases toward the diethylphosphone group. Orig. art. has 2 tables.

Card 1/2

L 17962-65

ACCESSION NR: AP5002621

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad
Technological Institute)

SUBMITTED: 27Jun63

ENCL: 00

SUB CODE: OC, EM

NO REF Sov: 011

OTHER: 004

JPRS

Card 2/2

PETROV, A.A.; RADAYAN, V.O.

Course of synthesis of styrene, methyl, and allyl derivatives of
isopropene. Zhur. org. khim. 3, no. 1: 33-43² Apr. 1967.

MI A 11:
1. Leningradskiy tekhnicheskij institut im. Lensoveta.
Armenianskij pedagogicheskij institut im. Aboyan.

L 17950-65 ENT(m)/EPF(c)/EMP(j) PC-4/Pr-4 ASD(s)-5 RM
ACCESSION NR: AP5002565 S/0079/64/034/007/2262/2267

AUTHOR: Sharikova, I. Ye.; Al'bitskaya, V. M.; Petrov, A. A.

TITLE: Investigations in the field of the chemistry of organic oxides. XXIII.
Addition of methyldichlorosilane to divinyl and isoprene oxides

SOURCE: Zhurnal obshchey khimii, v. 34, no. 7, 1964, 2262-2267

TOPIC TAGS: organic oxide, silane compound, chemical bonding

Abstract: The addition of methyldichlorosilane to the oxides of divinyl (1, 2-epoxybutene-3) and isoprene (3-methyl-1, 2-epoxybutene-3) was studied. The reaction proceeded smoothly in both cases, addition occurring only at the Si-Cl bond; the Si-H bond was preserved. Infrared and nuclear magnetic resonance studies of the reaction products showed, that these alpha, beta-unsaturated oxides add methyldichlorosilane with cleavage of the oxide ring at the least hydrogenated carbon atom, i.e. in a different order from the corresponding saturated oxides; the double bond is preserved. In the case of isoprene oxide, a partial 1,4-addition may also occur. Orig. art. has 2 tables and 2 graphs.

Card 1/2

L 17950-65
ACCESSION NR: AP5002565

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad
Technological Institute)

SUBMITTED: 24Apr63

ENCL: 00

SUB CODE: OC, GC

NO REF Sov: 007

OTHER: 002

JPRS

Card 2/2

RAZUMOVA, N.A.; PETROV, A.A.

Addition of the chlorides of mono- and dithioethylene glycolphosphorous acids to isoprene. Zhur.oo.khim. 34 no.1:356 Ja '64.
(MIRA 17:3)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

PETROV, A.A.; MINGAIEVA, K.S.; ZAVGORODNIY, V.S.

Chemistry of unsaturated tin hydrocarbons. Part 4: Dipole moments of
alkyl-, alkanyl-, and phenylacetylenic tin hydrocarbons. Zhur. ob. khim.
34 no. 2:533-535 r '64.
(MIRA 17:3)

Leningradskiy tekhnologicheskiy institut imeni Lersoveta.

ZAVGORODNY, V.S.; PETROV, A.A.

Preparation of acetylenic tin hydrocarbons by the direct
substitution of a tin-containing group for acetylenic hydrogen.
Zhur. ob. khim. i? no. 2:2721 Ag '63. (MIRA 16:11)

1. Leningradskiy tekhnologicheskiy institut imeni Lensovetka.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

LAZEEVA, G.S.; PETROV, A.A.,

Spectroscopic determination of the isotopic composition of
nitrogen. Vest. Lit. 18 no.1n:56-1 162. (MIFI A 7:1)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

CHISTOKLETOV, V.N.; TROSHCHENKO, A.T.; PFTHOV, A.A.

Addition of benzonitrile oxide to unsaturated compounds. Part 4:
Condensation of benzonitrile oxide with substances containing
a vinylacetylene grouping. Zhur. ob. khim. 37 no.8:2555-1559
Ag '63. (MIKA 16:11)

1. Leningradskiy Tekhnologicheskiy Institut imeni Lensoveta.

IONIN, B.I.; LEBEDEV, V.B.; PETROV, A.A.

Phosphinic acid esters with diacetylene radicals. Dokl. AN
SSSR 152 no.6:1354-1356 O '63. (MIRA 16:11)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.
Predstavлено академиком B.A. Arbuzovym.

POLYAKOVA, A.A.; KHMEL'NITSKIY, R.A.; PETROV, A.A.

Mass spectra and structure of organic compounds. Part 2: Mass spectra of some allene hydrocarbons with tert-butyl radicals.
Zhur. ob. khim. 33 no.8:2518-2525 Ag '63. (MIKA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

RANDALL, A. S., and V. A. A.

"Soviet Plan to Split Mexico's Oil Industry Would Benefit U.S. Interests"
This document, written to the U.S. Congress by a Mexican, analyzes
possible political and economic effects of a proposed plan to split the
Mexican oil industry into two parts, one state-owned, the other private.

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

BUNINA-KRIVORUKOVA, L.I.; PETROV, A.A.

Synthesis of the geometrical isomer of aldehyde from violet leaves
(2,6-nonadienal). Izv.vysshcheb.zav.;khim. i khim.tekh. no.1:
87-90 '63. (MIRA 16:6)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra
organicheskoy khimi. (Nonadienal) (Violets)

KHERUZE, Yu.I.; PETROV, A.A.

Addition of triphenylmethyl radicals to divinylacetylene and its homologs. Izv.vys.ucheb.zav.;khim.i khim.tekh. 6 no.1:170-171
'63. (MIRA 16:6)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra
organicheskoy khimi.
(Hexadienyne) (Triphenylmethyl group)

ZAYDEL', A.N.; LAZYEVA, G.S.; PETROV, A.A.

Feasibility of determining oxygen in metals by the isotope spectrum
method. Vest. LGU 18 no.4:55-58 '63. (MIRA 16:3)
(Oxygen isotopes--Spectra) (Metals--Oxygen content)

ZAYDEL', A.N.; IVANOVA, T.F.; PETROV, A.A.; FEDOROV, V.V.;
CHUMAKOVA, N.M.

Uses of the spectral-isotopic method of determination of gases
in metals. Zav. lab. 29 no.6:693-695 '63. (MIRA 16:6)

1. Fizicheskiy institut Leningradskogo gosudarstvennogo uni-
versiteta imeni A.A. Zhdanova.
(Gases in metals) (Spectrum analysis)
(Radioisotopes)

ZAVGORODNIY, V.S.; PETROV, A.A.

Addition of triphenyl radicals to 1,3-enyne tin hydrocarbons. Dokl.
AN SSSR 149 no.4:846-849 Ap '63. (MIRA 1c:3)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.
Predstavлено академиком B.A.Arbusovym.
(Trityl group) (Hydrocarbons) (Tin organic compounds)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

the first time in the history of the world, the people of the United States have been compelled to make a choice between two political parties, each of which has a distinct and well-defined platform, and each of which has a definite and well-defined object in view.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001240410017-1"

1 21818-65 AEDC(a)/ASD(f)-3
ACCESSION NR: AP5004669

S/0040/64/028/004/0754/0758

AUTHOR: Petrov, A. A. (Moscow)

TITLE: Variational formulation of the problem on liquid motion in a vessel with finite dimensions

SOURCE: Prikladnaya matematika i mehanika, v. 28, no. 4, 1964, 754-758

TOPIC TAGS: incompressible fluid, variational calculus

ABSTRACT: A nonlinear problem of oscillations in a finite-dimensional vessel containing an ideal noncompressible liquid acted upon by gravity and surface tension forces is solved by a variational method. This method allows the utilization of simple techniques to solve the problem, which is equivalent to a boundary value problem. "The author thanks N. N. Moiseyev and A. D. Myshkin for their useful advice." Orig. art. has 3 figures and 20 formulas.

ASSOCIATION: Vychislitel'nyy tsentr AN SSSR (Computing Center of the AN SSSR)

SUBMITTED: 06 May 64

ENCL: 00

SUB CODE: ME, MA

NO REF Sov: 001

OTHER: 000

JPRS

Card 1/1

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

POLAROID, A.A.; SA, FBI BUREAU, U.S.

AIR MAIL
TO: [REDACTED] ZURICH, SWITZERLAND
FROM: [REDACTED] AUSTRIA
DATE: [REDACTED]

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

ZHDANOV, L.A., nauchnyi sekretar' instituta A.P.S., nauchnyi sekretar'
sotrudnik

Results of probing the atmosphere with A-2 radiosondes in April 1964.
Inform. biul. Sov. antark. eksp. no.45:34-38 '64.
(MIRA 18:1)

L-21837-65 E&T(m)/EPF(c)/EPF(j)/T Pa-4/Pr-4 RM

ACCESSION NR: AP4047396

S/0062/64/000/010/1807/1814²⁰

AUTHOR: Cherny*shev, Ye. A.; Vangnits, Ye. V.; Gel'perina, V. M.; ¹⁹
Petrov, A. D.

TITLE: Synthesis of bis(organochlorosilyl)derivatives of aromatic hydrocarbons
and tris(trichlorosilyl)benzene

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 10, 1964, 1807-1814

TOPIC TAGS: benzene, benzene derivative, synthesis, high temperature condensation, disproportionation reaction, exchange reaction

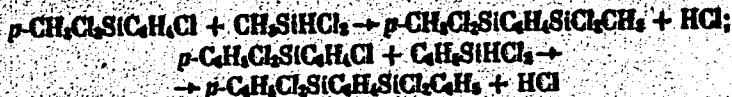
ABSTRACT: The high temperature condensation method described by Ye. A. Cherny*shev, V. F. Minorov and A. D. Petrov (Izv. AN SSSR. Otd. khim. n. 1960, 2147), wherein the reactants were contacted for about 30 seconds at about 580°C, was utilized in the synthesis of a series of p-bis(organochlorosilyl)benzenes and of tris(trichlorosilyl)benzene. Disproportionation reactions did not occur in these gaseous reactions between the organochlorosilyl benzenes and chlorosilanes; only the silyl groups were exchanged. Hence pure bis(organodictlorosilyl)ben-

Card 1/3

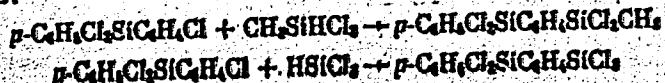
L 24837-65

ACCESSION NR: AP4047396

zenes were synthesized:



Gas phase condensation theoretically would not result in the synthesis of pure bis-silyl benzene derivatives having different methyldichlorosilyl and trichlorosilyl groups on one benzene ring. But compounds with different organochlorosilyl groups were separated by their differences in boiling temperatures, e.g., in the following synthesis:



High temperature condensation of a four-fold excess of trichlorosilane with a mixture of dichlorophenyltrichlorosilane isomers gave a 13.5% yield of triis(trichlorosilyl)benzene which was methylated to triis(trimethylsilyl)benzene. The physical properties of the investigated compounds are tabulated. Orig. art. has: 1 table.

Card 2/3

L 24837-65

ACCESSION NR: AP4047396

1 figure and 10 equations

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii
nauk SSSR (Institute of Organic Chemistry, Academy of Sciences SSSR)

SUBMITTED: 21Jan63

ENCL: 00

SUB CODE: GC, OC

NO REF SOV: 003 OTHER: 002

Card 3/8

L 24641-65 EWT(m)/EPF(c)/EMP(j)/T PC-4/PR-4 RM

ACCESSION NR: AP4047403 S/0082/64/000/010/1893/1895

AUTHOR: Chernyshev, Ye. A.; Vangnits, Ye. V.; Petrov, A. D.

TITLE: Synthesis of bis(organochlorosilyl) derivatives of naphthalene

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 10, 1964, 1893-1895

TOPIC TAGS: naphthalene derivative, synthesis, organosilylnaphthalene, dichloronaphthalene

ABSTRACT: A non-catalytic gas phase condensation reaction was found usable for the synthesis of bis(organochlorosilyl) naphthalenes. Trichlorosilane or methyldichlorosilane were reacted with chloronaphthyltrichlorosilane, with dichoronaphthalene isomer mixtures and with 1,4- and 1,5-dichloronaphthalene. The high temperature condensations proceeded without isomerization at 575-580°C in a quartz tube on 30 second contact time. The yields with methyldichlorosilane were somewhat lower than with trichlorosilane. The 1,4- and 1,5-dichloronaphthalenes were more reactive than p-dichlorobenzene. "The initial chloronaphthyl-

Card 1/2

L 24841-65

ACCESSION NR: AP4047403

trichlorosilanes, boiling 153-163C at (10 mm); n_D^{20} = 1.6130 and dichloronaphthalene, boiling 108-120C (10 mm); melting at 50C, were supplied by G. V. Motsarev, whom we sincerely thank." Orig. art. has: 1 table and 1 equation

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry Academy of Sciences SSSR)

SUBMITTED: 02Mar64

ENCL: 00

SUB CODE: GC, OC

NO REF SOV: 001

OTHER: 003

Card 2/2

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

YAKOVLEV, V.V.; BARTOV, V.A.; KARABELOV, V.P.; KERZHNIKOV, V.P.;
YAKOVLEV, N.N., ~~and others~~

Production of substituted heterocyclic compounds from hexafluoropropene
benzene. Dicyanomethylhexafluoropropene and its derivatives.

Journal of Russian Federation of the Russian Academy of Sciences. Chemistry
of Organic Compounds, 1986, v. 22, p. 1020-1024.

PETROV, Al.A.

Kinetics of the dehydrogenation of hexanes of alumina-chromium oxide catalysts. Neftekhimiia 1 no.1:33-38 Ja-? '61. (MIA 15:4)

1. Institut geologii i razrabotki poryuchikh iskopayemykh AN SSSR.
(Dehydrogenation) (Hexane)

KISLINSKIY, A.N.; PETROV, AL.A.

Infrared spectra of some C_{20} - C_{24} diaryl hydrocarbons and their hydrogenation products. Izv. AN SSSR. Ser. fiz. 26 no.10:1269-1272 '62. (MIRA 15:10)
(Hydrocarbons—Spectra) (Hydrogenation)

TETERINA, M.P.; PETROV, Al.A.

Molar extinction coefficients for certain absorption bands in spectra
of mono-, di-, and tricyclohexylalkanes. Izv. AN SSSR. Ser. fiz. 26
no.10:1266-1268 O '62. (MIRA 15:10)

1. Institut neftekhimicheskogo sinteza AN SSSR i Institut geologii
i razrabotki goryuchikh iskopayemykh.
(Cycloalkanes—Spectra)

MOROZOVA, O.Ye.; ZEMSKOVA, Z.K.; OSITYANSKAYA, L.Z.; KISLINSKIY, A.N.;
PETROV, Al.A.

Part 2: Catalytic dehydroisomerization of alkylcyclopentanes.
Neftekhimiia 2 no.5:676-680 S-O '62. (MIRA 16:1)

1. Institut geologii i razrabotki goryuchikh iskopayemykh.
(Cyclopentane) (Dehydrogenation)

L 13510-63

EFF(C)/EMT(M)/BDS AFFTC/APCC PR-4 RM/BW/NW/MN

ACCESSION NR: AP3002770

8/0204/63/003/003/0305/0309

64

62

AUTHOR: Teterina, M. P.; Petrov, Al. A.TITLE: IR spectrum of absorption of phenylcycloalkylalkanes of C₂₄ compositions

SOURCE: Neftekhimiya, v. 3, no. 3, 1963, 305-309

TOPIC TAGS: IR absorption spectrum, phenylcycloalkylalkane, C₂₄, high-molecule petroleum fraction, C₂₄ phenylcycloalkylalkane

ABSTRACT: Authors study five compounds of phenylcycloalkylalkanes which are typical for those found in highmolecule petroleum fractions. Study of the spectra of hydrocarbons composed of various cycles which are bound by paraffinic bonds shows that these spectra consist of absorption bands characteristic for each individual structural link. The intensity of the characteristic bands depends on the number of corresponding structural links. The principle of additivity of spectra of the structural links is followed. The spectra contain a number of other bands which are considerably less intensive than the indicated characteristic bands. Orig. art. has: 2 tables and 2 graphs.

Card 1/21 Inst. of Petrochemical Synthesis Inst. of Dev. & Dev. of Mineral Fuels

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

GRISKOV, A.; FITKOV, A.

Bank construction and the agricultural industry. "Bank construction
in agriculture--construction bank" Fred 12 Jul 51-60 100.
Milan 1957

(Banks and banking) (Agriculture--Equipment and supplies)
(Construction industry--Finance)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

Petrov, A.

AID P - 1820

Subject : USSR/Aeronautics

Card 1/1 Pub. 35 - 15/18

Author : Petrov, A., Eng.

Title : ~~Britain's atomic factories~~

Periodical : Vest. voz. flota, 3, 82-87, Mr 1955

Abstract : The author reviews a book Britain's Atomic Factories by Jay, K., London, 1954. Several photos are given.

Institution: None

Submitted : No date

AID P - 2253

Subject : USSR/Aeronautics

Card 1/1 Pub. 135 - 17/19

Author : Petrov, A., Engineer

Title : Atomic enterprises of the USA (Survey of the foreign press)

Periodical: Vest. vozd. flota, 7, 85-90, J1 1955

Abstract : This is a survey of American atomic research and atomic power production based mainly on articles published in the USA. Photos, charts.

Institution: None

Submitted : No date

PETROV, A. (Petropavlovsk-Kamchatskiy)

The wings of Kamchatka. Grazhd. av. izd. 1:10-21
Mr '60. (MIRA 1:16)
(Kamchatka—Airlines)

PETROV, Al.

Wild boars and primitive domestic swine, and their offspring.
Bulg 11 no. 1:95-101 Ja-f '2.

TERERINA, M.P.; PETROV, A.A.

Infrared absorption spectra of C₂₄ aromatic hydrocarbons.
Neftekhimiia 3 no.2:161-168 Mr-Ap '63. (MIRA 16:5)

1. Institut geologii i razrabotki goryuchikh iskopayemykh
gosudarstvennogo komiteta po toplivu.
(Hydrocarbons--Absorption spectra)

VOROB'YEVA, L. N.; GUR'YANOV, V. V.

Polymerization of nitrile carbons of the bicyclic 3,3,7-heptane
perhydrophenanthrene in the presence of aluminum bromide.
Neftekhimiia i promst. naftoprod. (MOSCOW)

1. Institut po issledovaniyu razrabotki i vvedenii v proizvodstvo
substancii nafty. 1965.

L 15487-63

EWP(j)/EPF(c)/EWT(m)/BDS

Pc-4/Pf-4 EM/NW/JT

ACCESSION NR: AP3005444

S/0204/63/003/004/0456/0464

6/1
6/4

AUTHORS: Bagriy, Ye. I.; Sanin, P. I.; Petrov, Al. A.

TITLE: Synthesis and properties of C sub 28 polycyclic hydrocarbons

SOURCE: Neftekhimiya, v. 3, no. 4, 1963, 456-464

TOPIC TAGS: polycyclic hydrocarbon, hydrocarbon synthesis

ABSTRACT: The following new compounds containing benzene, penta-methylene and hexamethylene rings were synthesized and characterized physically and spectrally: 1,7-diphenyl-4-nonylheptane; 1,7-dicyclohexyl-4-nonylheptane; 1,7-bis-(4-methylphenyl)-4-heptylheptane; 1,7-bis-(4-methylcyclohexyl)-4-heptylheptane; 1,7-bis-(3,4-dimethylphenyl)-4-pentylheptane; 1,7-bis-(3,4-dimethylcyclohexyl)-4-pentylheptane; 1,1-bis-(3,4-dimethylphenyl)-dodecane; 1,1-bis-(4-cyclopentylphenyl)-decane; 1,1-bis-(4-cyclopentyloctyl)-decane. Orig. art. has: 1 table, 2 equations, and 2 figures.

Card 1/2

L 15487-63

ACCESSION NR: AP3005444

ASSOCIATION: Institut neftekhimicheskogo sinteza AN SSSR (Institute
of petrochemical synthesis, AN SSSR); Institut geologii i razra-
botki goryuchikh iskopayemikh Goskomiteta po toplivnoy promyshlen-
nosti pri Gosplane SSSR (Institute of Geology and Processing of Fossil
Fuels, State Committee for the Fuel Industry of the State Planning
Commission) 3

SUBMITTED: 14Feb63 DATE ACQ: 06Sep63 ENCL: 00
SUB CODE: CH NO REF SOV: 003 OTHER: 012

Card 2/2

L 15486-63

EWP(j)/EPP(c)/EWT(m)/BDS

Pc-4/Pr-4 BM/WW

ACCESSION NR: AP3005445

8/0204/63/003/004/0465/0471

67
66AUTHORS: Petrov, A. A.; Sanin, P. I.; Tsedilina, A. L.;
Bagriy, Ye. I.; Yepishov, V. I.

TITLE: Synthesis and properties of C sub 24-hydrocarbons

SOURCE: Neftekhimiya, v. 3, no. 4, 1963, 465-471

TOPIC TAGS: C sub 24-hydrocarbon synthesis, hydrocarbon structure,
naphthene

ABSTRACT: The following 24 new C₂₄-hydrocarbons, containing varied structures including 5- and 6-membered naphthene rings of different degrees of substitution were synthesized and described. 10-cyclopentylnonadecane; 1-methyl-2-octadecylcyclopentane; 1,7-dicyclopentyl-4-heptylheptane; 1,7-di-(3-methylcyclopentyl)-4-amylheptane; 1,10-di-(2,4-dimethylcyclopentyl)-decane; 1,7-dicyclopentyl-4-(B-ethylcyclopentyl)-heptane; 1-phenyl-4-hexyl-7-cyclopentylheptane; 1-cyclohexyl-4-hexyl-7-cyclopentylheptane; 7-(4-cyclopentylphenyl)-tridecane; 7-(4-cyclopentylcyclohexyl)-tridecane; 1,7-dicyclopentyl-4-benzyl-

Card 1/2

L 15486-63

ACCESSION NR: AP3005445

heptane; 1,7-dicyclopentyl-4-methylcyclohexylheptane; 6-(2,4,5-trimethylphenyl)-pentadecane; 6-(2,4,5-trimethylcyclohexyl)-pentadecane; 1-phenyl-3-(2,5-dimethylbenzyl)-nonane; 1-cyclohexyl-3-(2,5-dimethylmethylycyclohexyl)-nonane; 1,1-di-(4-isopropylphenyl)-hexane; 1,1-di-(4-isopropylcyclohexyl)-hexane; 1,1-di-(2,4,5-trimethylphenyl)-hexane; 1,1-di-(2,4,5-trimethylcyclohexyl)-hexane; 1,3-di-(5-indanyl)-2-propylpropane; 1,3-di-(5-hydridanyl)-2-propylpropane; 1-phenyl-4-(2-dodecyl)-benzene; 1-cyclohexyl-4-(2-dodecyl)-cyclohexane. "Synthesis (of 1,3-di-(5-indanyl)-2-propylpropane) carried out by L. N. Stuk-anov". Orig. art. has: 29 formulas.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: CH

NO REF SOV: 008

OTHER: 007

Card 2/2

KNORRE, B.V.; PETROV, A.D.

Typical centralized enterprise for the production and processing
of molding materials. Lit. proizv. no.1:2-4 '63. (MIRA 16:3)
(Sand, Foundry)

PETROV, A.D.; NEFEDOV, O.M.; LEVKOV, Ya.L.; SHMUK, T.Yu.

Alkylation of benzene with 2-cyclohexylcyclohexanol in the
presence of AlCl_3 . Neftekhimia 1 no. 3:362-369 My-Je '61.
(MIRA 1n:11)

1. Institut organicheskoy khimii AN SSSR imeni Zelinskogo.

SADYKH-ZADE, S.I.; PETROV, A.D.

Synthesis and reaction of organo-silicon oxides. Az-SADYKH-ZADE,
no. 5:105-117 (1982).
(MIRA 1982)
(Silicon organic compounds) (Olefins - Oxides)

OGIEN, Yu.N.; NIKONOV, V.I.; KOTIN, V.

Free radical synthesis of polyisobutylene and its
alkyldiallylbenzenes. I. In: ANGL. TRANSLATEM. NO. 10 1971-1976
P. 163. MIRA 173

1. Institut of Macromolecular Chemistry, Academy of Sciences, Prague.

3/20/63/148/003/124/037
B117/B106

AUTHORS:

Retnev, A. I., Lopatin, V. M. Menter AS USSR, Sokolova,
N. N., Baranov, N. N.

TITLE:

Reaction of the methyl esters of ferrocene, mono- and
dicarboxylic acids with α - and γ -magnesium halogen alkyl
esters.

PUBLISHER:

IZDANIE KOMITETA VINITI, 1963, v. 146, no. 7, 163, 48-600

TKH: It was shown that the α - and γ -magnesium chloride, which is structurally similar to hexamethylbenzene chloride, reacts anomalously with the methyl ester of ferrocene and carboxylic acid and reduces dichloro- α , γ -terephthalic acid. The reaction with trimethyl ester of ferrocene dicarboxylic acid also proceeded in a similar way. Here only an ester of α , β -dichloro- γ -butyric acid ester, Grignard
esther, etc., reacted normally with the esters mentioned
and reduced tertiary and not secondary. From the reaction of methyl
esters of ferrocene mono- and dicarboxylic acids, the compounds mentioned
below were obtained for the first time with Grignard reagents from trimethyl
carbonyl.

reaction of the tetrahydrofuran...

S/380/67/1151, 7/14/77
S117/2106

chloromethyl silane and trimethylsilyl propyl silane; (trimethylsilyl)-
benzyl ferrocenyl ether, m.p. 100°, melting point 66°, yield 66% by
weight; keto ester of ferrocene and acrylic acid, C₁₇H₂₂C₆PtSi, melting
point 112-113°, yield 50%; and, 1-(trimethylsilylpropyl)-ferro-
cene, carbon, C₁₇H₂₂C₆Pt, melting point 100-102°, yield 50% by weight;
1,1'-bis-(1-phenyl-1-propyl)-2,2'-biphenyl, -4-heptyl-ferrocene,
C₃₀H₅₀Pt, melting point 110-111°, yield 57% by weight. There is
a table.

Author Name: V. V. Kostylev et al., Akademicheskiy institut im. D. I.
Mendeleeva, Moscow Institute of Chemical Technology imeni
D. I. Mendeleeva,

Author Address: October 1, 1977

Card 1/2

3-12-763 140-24-2
P144/21-1

Thernyachey, Ye. A., Sukhareva, Ye. P., Ietroz, A.I.
Corresponding Member AS USSR

Synthesis of some triethylbenzyl substituted derivatives and
their esters

Aktili, Iyakhanov, Ye. S., Abdullaev, R. M., Umarov, T. N.

After leaving the research formulae 1-3, obtained in [REDACTED] were
synthesized, those with n = 1 and according to the method by A.R.
Aktili, Iyakhanov, Ye. S., Umarov, T. N., 1972, and those
with n = 2 by the method of R.Z. Linnville (U.S. Pat. 3,771,313);
"USSR Attri., 52, 1147 (1972). The compounds obtained, their melting
points, n_D^{20} , $T_{\text{d}}^{\circ}\text{C}$ and yields were: 1,3,5-triethylbenzyl bromide, 110-
120°C, $n_D^{20} = 1.4417$, $T_{\text{d}} = 200^{\circ}\text{C}$; 1,3,5-triethylbenzyl iodide, 110-
115°C, $n_D^{20} = 1.4421$, $T_{\text{d}} = 200^{\circ}\text{C}$; 1,3,5-triethylbenzyl chloride, 110-
115°C, $n_D^{20} = 1.4421$, $T_{\text{d}} = 200^{\circ}\text{C}$.

Synthesis of some triethyl-silyl ...

51-144-104-11
51-144-21-1

110-143⁰/2 mm Hg, 1.44⁰, 3.07% (values cited from previous paper [13], 143, 2), 4, "I", 10⁰; $(\text{CH}_3)_2\text{Si}(\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2)_2\text{P}(\text{OEt})_3$ (IV), 110-143⁰/2 mm Hg, 1.44⁰, 1.07%, "II". These esters were hydrolyzed with 10% HCl by heating for 24 hr and yielded 96-98% acids. About 0.1 M solutions of these acids in 5% ethanol were titrated potentiometrically with 0.1 N NaOH at 25°C to determine the relation between their ionization constants and the position of their triethyl-siloxy group with respect to the P atom. The difference in the pK_a of the substituted and unsubstituted acids was 1.05 in the case of I and up to 1.15 for II, III, and IV. It is attributed to the induction effect of the $(\text{CH}_3)_2\text{Si}$ group, which is almost zero on substitution at the γ or δ C atoms of the alkyl chain. Similar results had previously been obtained by G. H. Barnes and M. P. David [J. Am. Chem., 82, 1191 (1960)] for other acids containing Si and P. There are 2 tables.

ASSOCIATION: Institut organicheskoy khimii im. N.D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N.D. Zelinskogo of the Academy of Sciences USSR)

Card 2/3

Synthesis of some triethyl-silyl ...

3/22/67 10:00 AM-1
P144 P101

SUBMITTED: November 2, 1962

Card 3/3

NEFEDOV, O.M.; NOVITSKAYA, N.N.; PETROV, A.I.

Production of cyclopropane hydrocarbons by the reduction of
dihalocarbene adducts to olefins. Dokl. AN SSSR 15, 1976,
620-632 S 163. MIRA (1976)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
2. Chlen-korrespondent AN SSSR (for Petrov).

NIKISHIN, G.I.; MUSTAFAYEV, R.I.; PETROV, A.D.

Free radical addition of N-alkyl acetamides to methyl acrylate.
Dokl. AN SSSR 152 no.4:879-881 O '63. (MIRA 16:11).

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
2. Chlen-korrespondent AN SSSR (for Petrov).

ETOV, A.D., SOKOLOV, V.P., PERBANOV, M.I., VOLINA, N.I.

Addition of alkene hydrides to dimethylallylferrocenylsilane in
the presence of H₂PtCl₆. Dokl. AN SSSR 152 no.5:1113-1121
G-162. (MIRA 10-12)

1. Moskovskiy khimiko-tehnologicheskiy institut im. D.I.Mendeleeva.
2. Chlen-korrespondent AN SSSR (for Petrov).

GVERDTSITELI, I.M.; GUNTSADZE, T.P.; PETROV, A.D.

Synthesis and dehydration of some germanium-containing
diene carbinols. Dokl. AN SSSR 153 no.1:107-110 N '63.
(MIRA 17:1)

1. Tbilisskiy gosudarstvennyy universitet. 2. Chlen-
korrespondent AN SSSR (for Petrov).

BVKU, Germany

August Kekulé; an outline of his life and work. August
Kekulé; ocherk zhizni i delatstviya A. V. Kekulé;
1964. 232 p.

L. Ober-korrektor: AN SSSR

MIRONOV, V.P.; KRAVCHENKO, A.L.; PETROV, A.D. [deceased]

Synthesis of carbofunctional compounds of germanium based
on chloromethyltrimethylgermane. Izv. AN SSSR Ser. khim. no.
7:1209-1215 Jl '64. (ZhA 17:8)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

SHVYRKIN, M. I.; PETROV, A. D. (coined); KARAEV, V. A.; REUTKAY, L. F.;
SKOBTNOVA, G. F.

Synthesis of substituted trisubstituted allyllic compounds containing
containing five-membered rings. Izv. Akad. Nauk SSSR, Ser. Khim., No. 9:
1982-1685. 6 refs.

(ZINR 17:1)

U. Institute of Chemical Physics, USSR Academy of Sciences, Kosygin Str. 4, Moscow, USSR.

CHERNYSHEV, Ye.A., VANGNITS, Ye.V., GEL'PERINA, V.M.; PETROV, A.D.

Synthesis of bis(organochlorosilyl) derivatives of aromatic hydrocarbons and tria (trichlorosilyl) benzene. Izv. AN SSSR.
Ser. khim. no.10:1807-1814 O '64. (MIRA 17:12)

I. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

ANTSUS, L.I.; PETROV, A.D.; SHCHEULINA, O.I.

Catalytic dehydrocyclopolymerization of C₄ and C₈ olefins on
ZnCl₂ and ZnCl₂ - ZnS. Izv. AN SSSR. Ser. khim. no.10;
1866-1870 O '64. (MIRA 17:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

L 23511-65 EWT(m)/EPF(c)/EPR/EWP(j) Po-4/Pr-4/Ps-4/Pt-4 RPL WW/
JW/RM

ACCESSION NR: AP4047127

S/0080/84/037/010/2283/2286

AUTOR: Kapitan, Ye. P.; Kazakova, Z. I.; Sevast'yanov, Yu. G.;
Smirnov-Averin, A. P.; Petrov, A. D.

3
B

TITLE: Preparation and properties of isopropylterphenyl

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 10, 1964, 2283-2286

TOPIC TAGS: isopropylterphenyl, synthesis, preparation, property, diisopropylterphenyl, heat transfer agent, thermal stability, radiation stability, isomerization

ABSTRACT: The preparation of isopropylterphenyl by alkylation and its isomerization under alkylation conditions were investigated, as well as its thermal, radiation and viscosity properties. Alkylation of terphenyl with isopropyl chloride using AlCl_3 catalyst in hexane solution at 0-25°C gave mono-tetra isopropylterphenyls. The monoisopropylterphenyl yield was optimum with reactant terphenyl: isopropyl chloride: AlCl_3 ratio of 1:2:0.5; diisopropylterphenyl was maximum with a 1:4:1 ratio. Isomerization depended on catalyst (no isomerization with H_3PO_4)

Card 1/2

L 23511-65

ACCESSION NR: AP4047127

O
and temperature (isomerization with AlCl₃ catalyst increased with temperature). Isopropylterphenyl has high radiation and thermal stability. It can be used as a heat transfer agent in the 300-390C temperature range. Its higher boiling temperature and smaller decomposition in comparison to isopropyldiphenyl make it more promising for this application. Orig. art. has: 4 tables and 1 figure

ASSOCIATION: None

SUBMITTED: 02 Sep 83

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 003 OTHER: 007

Card 2/2

ZHURAVLEVA, T.A.; ODABASHYAN, G.V.; LEONOVА, T.S.; PETROV, A.D.

Reaction of dichlorosilane with organic chlorides at high temperatures. Dokl. AN SSSR 154 no.1:144-147 Ja'64.

(MIRA 17:2)

1. Moskovskiy khimiko-tehnologicheskiy institut im. D.I. Mendeleyeva. 2. Chlen-korrespondent AN SSSR (for Petrov).

ACCESSION NR: AP4012091

S/0020/64/154/002/0395/0397

AUTHORS: Nefedov, O.M.; Manakov, M.N.; Petrov, A.D. (Corresponding member)

TITLE: Mechanism of formation of aryl-substituted silacyclopentanes from organodichlorosilanes, styrenes and lithium. New method for obtaining substituted disilacyclohexanes.

SOURCE: AN SSSR. Doklady*, v. 154, no. 2, 1964, 395-397

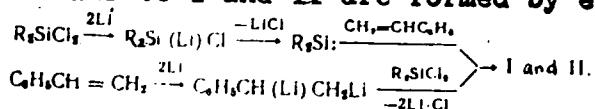
TOPIC TAGS: aryl substituted silacyclopentane, substituted disilacyclohexane, biradical intermediate, bionic intermediate, 1, 4-disilacyclohexane, reaction mechanism

ABSTRACT: Dimethyldichlorosilane and styrene (1:1) were reacted in tetrahydrofuran diluted with n-heptane (1:1) to form a dimer--X,X'-diphenyl-1,4,4-tetramethyl-1,4-disilacyclohexane, in 30% yield. The biradical $C_6H_5CHCH_2SiR_2$ (I) or the bilon $C_6H_5^2CHCH_2SiR_2$ (II) are both possible intermediates. Similar disilacyclohexanes are obtained from styrene and other organodichlorosilanes, and from dimethyldich-

Card 1/2

ACCESSION NR: AP4012091

lorosilane and alpha-methyl-styrene or stilbene. X, X' -bistrimethylsilyl-1,1,4,4-tetramethyl-1,4-disilacyclohexane was obtained in 20% yield from dimethyldichlorosilane, vinyltrimethylsilane and lithium. IR spectra and chemical degradation helped determine that 1,2-disilacyclohexanes were not formed. It is shown that intermediate biradicals and bilons similar to I and II are formed by either of the following routes:



"(IR spectra were) taken by L.A. Leytes on the UR-10 spectrometer in a solid solution of KBr". Orig. art. has: 1 figure and 4 equations.

ASSOCIATION: Institute organicheskoy khimii im. N.D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry, Academy of Sciences SSSR)

SUBMITTED: 25Sept63

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: CH

NO REF SOV: 004

OTHER: 000

Cu.d 2/2

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

GOVERNMENT OF THE UNITED STATES OF AMERICA

DEPARTMENT OF DEFENSE

DEFENSE INTELLIGENCE AGENCY

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

NEFEDOV, N.N.; BOGATYREV, N.V.; FAIR, A.L. (targets)

Prediction of the behavior of the NY 1000000000 passenger with the above information. Date: 01-10-1987.
A1-41, S 100. (NY A 17:10)

1. Institut prirodovedov Akademii Nauk SSSR, v. V. A. Akademicheskaya str., 10, Moscow, 117810, Russia; tel. +7 095 955 2070, fax +7 095 955 2070.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

BIGEREMKO, Ye.P.; CHUPRYSHEV, Ye.A.; PFTINOV, A.I. (deceased)

Synthesis of compounds containing phosphorus and silicon. IV
AN SSSR Ser. khim. n. 11(28c-29) 1971.

(MIFa 18:1

I. Institut organicheskoy khimii im. M.V. Lelinskogo AN SSSR.

PETROV, A.D. (deceased); CHEL'ISOVA, M.A.; KOMAROVA, S.I.

Reaction of organochlorine compounds with p-bromo diphenyl ether and 2,2-dichloro (chloro) diphenylmethane with tritylchlorosilane and germane.
Izv. AN SSSR, Ser. khim., no. 12, 1952, 165. (MIA : R16)

I. Institute of organic chemistry, N. N. Vorozhtsov AN SSSR,

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

DATE 07-19-2001 BY SP2 JAS/SP2 JAS

EXPIRATION DATE 07-19-2001 BY SP2 JAS/SP2 JAS

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

L 41 p 7-6b L 41 p 6a
ACC NR: AP6022886

F G M

SOURCE CODE: SR/0138/60/ccc/00../ccc2/0033

AUTORS: Nayibina, T. D.; Yasenkova, N. S.; Dolgova, N. I.; Starov, A. E. (ceased); Chernyshev, Ye. A.; Krasnova, T. M.

CAB: Institute of Organic Chemistry im. N. B. Zelinskogo (Institut organicheskoy khimii)

TITLE: A synthetic butadiene-silicostyrene rubber

SOURCE: Kauchuk i rezina, no. 4, 1966, 2-3

TOPIC TAGS: synthetic rubber, butadiene styrene rubber, organosilicon compound, CoPolymerization, Emulsion Polymerization

ABSTRACT: In order to obtain new types of rubbers, the emulsion copolymerization of n-trimethylsilicostyrene [(CH_3)₃ $\text{Si}-\text{C}_6\text{H}_4-\text{CH=CH}_2$] with butadiene was studied at 60°C, with potassium persulfate or acrylonitrile as the polymerization initiator, and also at 50°C in the presence of the reflux system tert-butylisobutyrylbenzene - hydroquinone. n-Trimethylsilicostyrene was obtained from trimethylchlorosilane and n-chlorostyrene. The latexes obtained were stabilized with a 2% alcohol solution of n-Koozone D. The copolymers obtained with acrylonitrile (SKN-70) at 60°C were poorly soluble in benzene (up to 5%); those obtained at 50°C (SKN-70M) dissolved in benzene almost completely, and their Mn was found to be 270,000. The SKN-70 polymers contain up to 6% Si, and SKN-70M, up to 5% Si; this corresponds to a copolymer composition in which 5 and 9 units of butadiene respectively are present for one unit of

Card 1/2

UDC: (678.762.2-134.622+546.28).004.12

L 41367-66

ACC NR: AP6022886

n-trimethylsilicostyrene. Rubber mixtures based on SKS-30 and SKS-30Kh copolymers were prepared and vulcanized at 140°C. Vulcanizates of SKS-30 copolymer have a greater wear resistance, fatigue strength, resistance to benzene and heat resistance than vulcanizates prepared from SKS-30A. Vulcanizates of the low-temperature copolymers SKS-30Kh surpass vulcanizates from SKS-30A in fatigue strength and heat resistance. The remaining properties of both copolymers are the same as those of vulcanizates from SKS-30 and SKS-30A. Orig. art. has: 1 table.

SUB CODE: 11/ SUEM DATE: 05Oct64/ ORIG REF: C01/ OPM REF: C01

Card 2/2 bdd

CHERNYSHEV, Ye.A.; VANGNITS, Ye.V.; PETROV, A.D.

Synthesis of bis(organochlorosilyl) derivatives of naphthalene.
Izv. AN SSSR. Ser. khim. no.10:1893-1895 O '64. (MIRA 17:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

MOISEYEV, N. N.; MYSHKIS, A. D.; PETROV, A. D.

"Some problems of hydrodynamics arising in the theory of space vehicle movement."

report submitted for 1st Int. Astronautical Cong., Warsaw, 7-12 Sep '64.

Computing Center, AS USSR.

PETROV, A. D.

DEMIDENKO, I. YA. (Professor, Doctor of Veterinary Sciences) and PETROV, A. D.
(Assistant, Department of Surgery with Orthopedics and Ophthalmology, Vitebsk
Veterinary Institute.) Waste crankcase oil (CKM) in treatment of ani. als.

So: Veterinariya; 2L; 10; October 1947; inc.
TARCON

PLATE 1

On the 2nd of May, 1907, I made a short trip to the mountains of the
Sierra Madre, near the village of Moximil, in the state of Jalisco, Mexico.

International Bureau of the American Geographical Society, New York, N.Y.

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001240410017-1"

SEVAST'YANOV, Yu.G.; BULANOV, L.A.; SMIRNOV-AVERIN, A.P.; KAPLAN, Ye.P.;
NEFEDOV, O.M.; CHEL'TSOVA, M.A.; PETROV, A.D.

Thermal and radiation stability of certain aromatic compounds.
Atom. energ. 14 no.6:555-558 Je '63. (MIRA 16:7)
(Pyrolysis) (Aromatic compounds--Thermal properties) (Polymerization)

ACC NR. AP6036351

(A)

SOURCE CODE: UR/0138/66/ccc/011/ccc2/ccc2

Chernova, T. N.; Isakova, L. S.; Alimova, G. I.; Petrov, A. D.;
Savchenko, Yu. A.; Arashova, T. L.

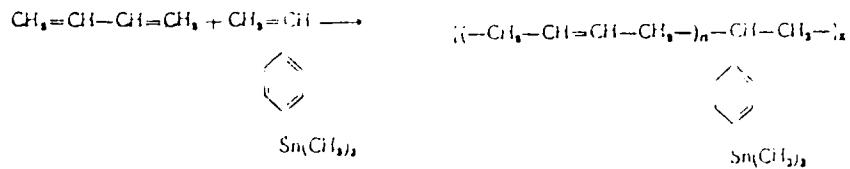
U.S. Institute of Organic Chemistry Im. N. D. Zelinsky, AN SSSR (Institut organicheskoy khimii Ak SSSR)

TITLE: Tin-containing synthetic rubber

SOURCE: Kauchuk i rezina, no. 11, 1966, 2

TOPIC TAGS: organotin compound, synthetic rubber, copolymerization

ABSTRACT: A new type of tin-containing synthetic rubber (SKDOS-30) has been produced by copolymerizing butadiene and p-trimethyltinstyrene at 60°C:



The yield of the copolymer was 60-70%. At the end of the reaction, the latex was stabilized with a 2% alcohol solution of neozone D. The latex was coagulated with a

Cord 1/2

UDC: (678.762.2+678.86).547.07.004.12

OKOVANTSHEV, L.A., inzh.; PETROV, A.F., inzh.

New control apparatus for centralized dispatching. Avtom.telem.
i sviaz' 3 no.1:10-13 Ja '59. (MIRA 12:1)
(Railroads--Train dispatching)

1/24/81 A

AUTHORS: Petrov, V. V., Shul'ner, M. Barinov, I. S., engineer 1.8-58-6-11/17
TITLE: Improving the Technological of Casting Lift Truck Counterweight
citat: L'vovskaya promstvo-vyazhezheskaya protsesssa ot-
livki kranov v poletivov, s. v. t. p. p. z. n. i. k. a.
PERIODICAL: Lit zhurn. po promstvo-vyazhezheskoye protsesssa ot-
livki kranov v poletivov, s. v. t. p. p. z. n. i. k. a., pp. 7-18 (USSR)
ABSTRACT: The article contains technical information on a new way of
molding lift truck counterweight wings at the foun-
dry of the Lvovskiy zavod avtopogruzchikov (Lvov Lift Truck
Plant). The old molding method, consisting of molding in two
mold boxes with the face side up (Fig. 1) was unsatisfactory.
The new technique consists of using only one open mold box,
with the face side of the casting turned inward (Fig. 2)
and using earth-filled cast iron cores with core paint made
of 0.7 liter of "MCR" binder and 1.0 liter of silver graphite.
The cast iron cores have considerably improved the surface
of the finished casting wings and brought about a consi-
derable economy of casting materials and labor. There are
2 figures.
AVAILABLE: Card 1/1 Library of Congress
1. Castings-Production 2. Castings-Design

PETROV, A.F. (Belgorod, obl., ul. Chernyshevskogo, d.3, kv.12)

Two cases of diaphragmatic hernia. Klin.khir. no.6r72-73 Je '62.
: (MIRA 16⁷)

1. Khirurgicheskoye otdeleniye (zav. - A.F. Petrov) Belgorodskoy
oblastnoy bol'niitsay.

(DIAPHRAGM—HERNIA)